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COUNTER RUST™ T-43 Corrosion Inhibitor – Metal Protection

Water soluble borate ester corrosion inhibitor

Application

Counter Rust T-43 is a cost effective water soluble corrosion inhibitor. It is a monoester of boric acid and monoethanolamine blending with monoisopropanolamine for ease of handling. It is easily incorporated into soluble, semisynthetic and synthetic metalworking fluids, alkaline cleaners and final rinsing fluids.

Counter Rust T-43 is an excellent source of reserve alkalinity and a good buffering agent to help extend the life of metalworking fluids.

Dipping metal parts in a 5% solution of Counter Rust T-43 in water will leave a dry protective film for short term indoor protection from humidity. Counter Rust T-43 is also a good sump side additive to provide additional buffering and bio stability to fluids.

Typical Properties

Test	Typical
Appearance fluid	Clear, slightly pale, viscous
Specific gravity at 25° C	1.180
Boron, wt. %	>6.0
Water wt. %	<3.0
Total amine value, mg KOH/g	680
Free amine, wt. %	>40
pH at 1.0% in water	9.9
pH as supplied	10.0

Benefits

- Highly concentrated, cost-effective corrosion inhibitor for ferrous and non-ferrous metals
- Easily incorporated in all types of fluids including soluble, semi-synthetic, synthetic, alkaline cleaners and final rinsing fluids
- Adds bio stability to metalworking fluids
- Particular effective in vegetable oil based fluids
- Excellent source of reserve alkalinity

Performance

Corrosion on Cast Iron Chips (ASTM 4627-86)

	% in Water	pH	Corrosion
Counter Rust T-43	0.5	9.0	None

Suggested Formulation Details

Corrosion inhibitor for ferrous metals: 0.5 – 1%

Short term humidity protection: 5% in water

Corrosion inhibitor in synthetic and semisynthetic concentrates: 8-12%

Storage and Handling

Recommended Maximum Long Term Storage Temperature*	Ambient – Store in tightly closed drum
Recommended Minimum Temperature for Use	Ambient – use in well-ventilated place
Flash Point	None to boiling

*Long term storage at temperatures above this may result in loss of performance.



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2/1/2017